

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Best Available Control Technology (BACT) Guideline**

Source Category

Source:	Gas Turbine	Revision:	1
		Document #:	89.1.2
Class:	Simple Cycle (> = 2.0 MW and < 40 MW)	Date:	07/18/03

Determination

POLLUTANT	BACT 1. Technologically Feasible/ Cost Effective 2. Achieved in Practice	TYPICAL TECHNOLOGY
POC	1. 2.0 ppmv, Dry @ 15%O ₂ ^a 2. 2.0 ppmv, Dry @ 15%O ₂ ^b	1. Oxidation Catalyst ^a 2. Oxidation Catalyst ^b
NO _x	1. < 5.0 ppmv, Dry @ 15%O ₂ ^a 2. 5.0 ppmv, Dry @ 15%O ₂ ^b	1. Dry Low NO _x Combustor and High Temperature SCR ^a 2. High Temperature SCR + Water or Steam Injection ^b
SO ₂	1. Natural Gas Fuel ^a 2. Natural Gas Fuel ^b	1. Fuel Selection ^a 2. Fuel Selection ^b
CO	1. 6.0 ppmv, Dry @ 15%O ₂ ^a 2. 10 ppmv, Dry @ 15% O ₂ ^b	1. Oxidation Catalyst ^a 2. Oxidation Catalyst ^b
PM ₁₀	1. Natural Gas Fuel ^a 2. Natural Gas Fuel ^b	1. Fuel Selection ^a 2. Fuel Selection ^b
NPOC	1. n/a 2. n/a	1. n/a 2. n/a

References

a. Guidance for the Permitting of Electrical Generation Technologies, CalEPA Air Resources Board, Stationary Source Division, July 2002

b. Guidance for Power Plant Siting and Best Available Control Technology, CalEPA Air Resources Board, Stationary Source Division, September 1999.